United States Department of Agriculture
NRCS Natural Resources Conservation Service

SALINITY MANAGEMENT (CSP Enhancements) **October 2005**

Colorado Enhancement Activity Job Sheet SM-2

Name:

Significantly Improve Salinity Management – EC Mapping

Payment = $6.00 /acre per acre per year when EMI techniques are fully adopted as an integral portion of a salinity management program.

Significantly improve salinity management by annually implementing all recommendations that result from before and after Electrical Conductivity (EC) mapping technology (Electro-Magnetic Induction (EMI) techniques)

Adoption of before and after Electrical Conductivity (EC) mapping technology is one of best technologies available for incorporation into a salinity management program. This technique involves utilizing EMI mapping of before conditions to gather site specific information and develop valuable information to make informed decisions for cropping systems, water management choices and other methods for managing salinity to improve on-site capabilities and improve off-site water quality. The results of this mapping technology are utilized to determine future courses of action including application of Irrigation Leaching Fraction considering uniformity, geologic formations, and saline formations and improved irrigation efficiency and uniformity. Proper adjustments are made to the conservation system including crop changes, changed production goals, and changes in water management techniques. EMI technologies are utilized to develop an "after change" map that provides evidence that salinity management is under control. A maintenance and follow-up process is implemented that utilizes this EMI technology.

Use the table below or similar method to document where EMI technologies have been implemented, a "before" EMI map has been developed, recommended changes have been made, and an "after" EMI map has been prepared that shows evidence of success.

Field Identifier(s)	Acres	Crop Grown

*** Attach EMI before and after maps for the fields listed above.**

I certify that I have implemented EMI before and after survey technologies on the fields above and have incorporated this technology into my salinity management program.

Name: _____ **Date:** _____